

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Jerome M. Eldridge et al.	Examiner:	Tu-Tu V. Ho
Serial No.:	10/081,818	Group Art Unit:	2818
Filed:	February 20, 2002	Docket:	1303.045US1
Title:	ATOMIC LAYER DEPOSITION OF METAL OXIDE AND/OR LOW ASYMMETRICAL TUNNEL BARRIER INTERPOLY INSULATORS		

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants hereby authorize the Commissioner to charge the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p), to Deposit Account No. 19-0743. Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

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Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

JEROME M. ELDRIDGE ET AL.

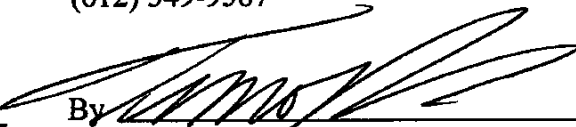
By their Representatives,

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Date

18 Sept '06

By



Timothy B. Clise  
Reg. No. 40,957

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being filed using the USPTO's electronic filing system EFS-Web, and is addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this

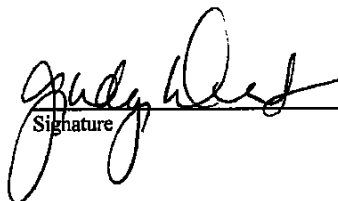
18<sup>th</sup> day of September 2006.

(19th. JLD)

JUDY DENT

Name

Signature



Substitute for form 1449A/PTO  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Complete if Known

<b>Application Number</b>	10/081,818
<b>Filing Date</b>	February 20, 2002
<b>First Named Inventor</b>	Eldridge, Jerome
<b>Group Art Unit</b>	2818
<b>Examiner Name</b>	Ho, Tu-Tu

Sheet 1 of 1

Attorney Docket No: 1303.045US1

### US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-20020024083A1	02/28/2002	Noble, W. P., et al.	02/26/1999
	US-20060186458A1	08/24/2006	Forbes, L., et al.	02/23/2005
	US-4,510,584	04/09/1985	Dias, D. R., et al.	12/29/1982
	US-4,545,035	10/01/1985	Guterman, D. C., et al.	07/20/1982
	US-4,665,417	05/12/1987	Lam, C. h.	04/23/1986
	US-5,057,448	10/15/1991	Kuroda, K.	02/10/1989
	US-5,331,188	07/19/1994	Acovic, A., et al.	02/25/1992
	US-7,112,841	09/26/2006	Eldridge, J. M., et al.	02/18/2004

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
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### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"ATOMIC LAYER DEPOSITED DIELECTRIC LAYERS", <u>US Application Serial No 10/379470 (1303.090US1) filed March 4, 2003,</u>	
		"COBALT TITANIUM OXIDE DIELECTRIC FILMS", <u>US Application Serial No. 11/216958 (Attorney Docket No 1303.150US1), filed August 31, 2005,</u>	
		"MAGNESIUM TITANIUM OXIDE FILMS", <u>US Application Serial No 11/89075 (Attorney Docket No. 1303.148US1) filed July 25, 2005,</u>	
		AHN, "ATOMIC LAYER DEPOSITED DIELECTRIC LAYERS", <u>US Application Serial No 10/379470 (1303.090US1),</u>	
		AHN, "CONDUCTIVE NANOPARTICLES", <u>US Application Serial No 11/197,184 (Attmy Docket No.303.904US1), filed August 4, 2005,</u>	
		AHN, "IRIDIUM / ZIRCONIUM OXIDE STRUCTURE", <u>US Application Serial No 11/152759 (Attmy Docket No. 1303.144US1) filed June 14, 2005,</u>	
		AHN, KIE Y., "LANTHANIDE YTTRIUM ALUMINUM OXIDE DIELECTRIC FILMS", <u>U.S. Application Serial No. 11/297,567, filed December 8, 2005 (Attorney Docket 1303.157US1), 05-0711,</u>	
		AHN, "LANTHANUM ALUMINUM OXYNITRIDE DIELECTRIC FILMS", <u>US Application Serial No 11/216474 (Attorney Docket No. 1303.152US1) filed August 31, 2005,</u>	
		GEALY, et al., "GRADED DIELECTRIC LAYERS", <u>US Application Serial No 11/216,542 (Attmy Docket No 303.903US1) filed August 30, 2005,</u>	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached